

III. REMARKS

Claim 15 is cancelled without prejudice. Claims 18-20 are new.

Claims 1, 6-8, 11-13 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Alamouti.

Claim 1 now recites "A method for transmitting a certain sequence of symbols...comprising...enabling a receiver to associate a correct channel coefficient with each transmitted symbol by starting the transmission pattern from the beginning in the beginning of each frame". Thus claim 1 now recites the Examiner's suggestion in the first full paragraph on page 8 of the last Office Action.

It is respectfully submitted that the Examiner's rejection on Alamouti relies on a misunderstanding concerning the connection between the concepts of "transmission pattern" and "frame". What Alamouti discloses is a set of rules of the following kind:

- in some time slot t , transmit symbol s_0 through first antenna and symbol s_1 through second antenna,
- in the subsequent time slot $t+T$, transmit symbol $-s_1^*$ through first antenna and symbol s_0^* through second antenna,
- in the subsequent time slot $t+2T$, transmit symbol s_2 through first antenna and symbol s_3 through second antenna...

Alamouti does not say that this sequence would have any correlation with frames, or that it be started anew at the beginning of each frame as recited in claim 1. Alamouti is not for the problem of correctly associating the antenna-specific channel estimates with the appropriate transmission antennas, as presently claimed. Alamouti merely specifies a certain way of introducing redundancy in the transmission of data symbols so that error probability in receiving and decoding would become lower.

Claim 1 recites starting the transmission pattern from the beginning in the beginning of each frame and have been amended to recite the associating the correct channel coefficient with each transmitted symbol feature. Independent claims 12, 13 and 17 have similar limitations. Since these limitations are not disclosed in Alamouti, the rejection of claims 1, 6-8, 11-13 and 15 should be withdrawn.

Claims 9 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alamouti.

Since the above-discussed starting the transmission pattern and associating the correct channel coefficient features are not suggested by Alamouti, the rejection of claims 9 and 17 should be withdrawn.

Claims 10, 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alamouti in view of an admitted prior art.

Since the admitted prior art also fails to disclose the above-discussed transmission pattern starting and channel coefficient features, combining it with Alamouti does not result in the claimed invention. Thus the rejection of claims 10, 14 and 16 should be withdrawn.

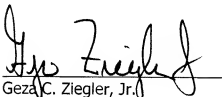
New claims 18-21 recite the limitations of allowable claim 2 and are therefore allowable.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

RESPONSE TO OA MAILED September 1, 2006

The Commissioner is hereby authorized to charge \$800 as payment for the added claims and any additional fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,



Geza C. Ziegler, Jr.
Reg. No. 44,004

31 October 2006
Date

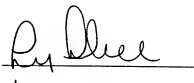
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Lisa Shimizu
Person Making Deposit